

Title (en)
SOLAR BATTERY MODULE

Title (de)
SOLARBATTERIEMODUL

Title (fr)
MODULE DE BATTERIE SOLAIRE

Publication
EP 3731282 B1 20230517 (EN)

Application
EP 18902425 A 20181227

Priority
• JP 2018010332 A 20180125
• JP 2018048033 W 20181227

Abstract (en)
[origin: EP3731282A1] A solar cell module (M) includes a plurality of solar cells (11A, 11B). The solar cells (11A, 11B) each includes an n-type or p-type semiconductor substrate (111). The semiconductor substrate (111) has major surfaces one of which is provided with a first electrode (121) connected to one of an n-type semiconductor layer or a p-type semiconductor layer, and a second electrode (122) connected to the other one of the n-type semiconductor layer or the p-type semiconductor layer. In a pair of solar cells (11A, 11B), the one major surface of a first end (11a) of one of the pair of solar cells is overlapped with the other major surface of a second end (11b) of the other solar cell. The first electrode (121) of the one solar cell and the second electrode (122) of the other solar cell are connected via a conductive connecting member (50). A conductivity type of the semiconductor substrate (111) and a conductivity type of the semiconductor layer electrically connected to the second electrode (122) are the same.

IPC 8 full level
H01L 31/05 (2014.01); **H01L 31/0224** (2006.01); **H01L 31/042** (2014.01); **H01L 31/048** (2014.01); **H01L 31/054** (2014.01)

CPC (source: EP US)
H01L 31/022441 (2013.01 - EP); **H01L 31/042** (2013.01 - EP); **H01L 31/048** (2013.01 - EP US); **H01L 31/0508** (2013.01 - EP US); **H01L 31/0516** (2013.01 - EP); **H01L 31/054** (2014.12 - EP); **H01L 31/0547** (2014.12 - EP US); **Y02E 10/52** (2013.01 - EP)

Citation (examination)
• EP 3855508 A1 20210728 - KANEKA CORP [JP]
• WO 2016188146 A1 20161201 - SUZHOU AUTOWAY SYSTEM CO LTD [CN] & EP 3297037 A1 20180321 - SUZHOU AUTOWAY SYSTEM CO LTD [CN]

Cited by
EP3855508A4; EP3852150A4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3731282 A1 20201028; **EP 3731282 A4 20210303**; **EP 3731282 B1 20230517**; CN 111615752 A 20200901; CN 111615752 B 20231110; JP WO2019146366 A1 20210107; US 2020350453 A1 20201105; WO 2019146366 A1 20190801

DOCDB simple family (application)
EP 18902425 A 20181227; CN 201880087210 A 20181227; JP 2018048033 W 20181227; JP 2019567940 A 20181227; US 202016934968 A 20200721